

NORTHERN SAN DIEGO COUNTY

W6NWG

Scope

1936 - 1987

THE PALOMAR AMATEUR RADIO CLUB, INC.

POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530W6NWG/R 146.730 (-)
449.425 (-)
145.050 (Pkt)

VOL. XXII, NO., 7

JULY, 1987

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
 VICE PRESIDENT: Bob Brehm, KB6OC, Carlsbad 931-8759
 SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
 TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

>>>>>>— President's Message —<<<<<<<

###--REPEATER USE--###

Whenever possible we try to keep the membership advised of when the repeater will be used for public service events but sometimes the requests come in so late that it does not make the SCOPE or the general meeting. Many of these events are scheduled almost a year ahead but we are only contacted a few days before the event. Remember that on public service events you are not asked to leave the repeater but only to keep your conversations short with lots of space between transmissions for the public service group to BREAK-IN and use the repeater. The repeater is turned off if prior permission is not obtained so please advise any groups that you are working with that we support public service use of the repeater but only if requested before the event so that we can give them special instructions on the use of the repeater and notify club members of its use.

As our membership climbs to over 355 members (a club record), we can't help but run into problems with the use of the two meter repeater. Most problems seem to come from too much BREAKING into long conversations that really should not have been that long. The talkers are upset by the BREAKS and the BREAKERS are upset at having to BREAK into long winded low priority conversations. Then we sometimes have the BREAKers who have broken into a BREAK of a broken conversation. Listen to

the repeater several minutes to find out what is going on before you BREAK into a conversation.

Everyone needs to work at:

- 1) BREAKING only with a good reason.
- 2) Conducting long specialized conversations at prime times.
- 3) Letting small infractions against "your own little personal repeater code" get you into a conflict situation with other repeater users. We have had several problems like this in the past six months. Keep it COOL. If you really need to BREAK, please feel free to do so but make sure that you pass your information quickly and properly return it to someone in the original conversation.

Be sure to look at the REPEATER ETIQUETTE sheet in this issue of the SCOPE. Remember, these items are the present policies of the club on repeater use and are subject to modification as time goes by. Please keep us informed of any suggested modifications to the list. We do not want to "jump" you on the air in front of all of S.D. Co. (2,000 square miles and 185 miles out to sea). A control operator might send you a checked sheet if problems persist. Remember that we are trying to allow as many people as possible to use the repeater which sometimes results in problems during high repeater usage periods.

CONTROL OPERATORS (COs) monitor the

repeater but will try to refrain from making comments on the air about members' conduct. COs will shut down the repeater under policies established by the executive committee but this is rarely done (once in the past two years) without good reason. The repeater is left on during most types of interference to help with the DFing of the TURKEY and to notify members to check the input. Control operators are usually not available to make telephone calls nor should they be asked to make any. Their function is to control the repeaters which they can do without being near a phone and to monitor repeater conversations for possible future action or correction.

###—DEL MAR FAIR—###

SANDARC (The San Diego Amateur Radio Council) has assigned us three days at the Del Mar Fair in July: Fri(3), Sat(4), and Sun(5). Operator shifts (groups of two operators) are 10-2, 2-6, and 6-9:30PM. Barbara Rohrer (KA6FPS) is looking for operators to operate the amateur radio station at the fair. Remember that she will give you free tickets. Give her a call on the phone (749-0276) or on 146.730 to set up your time of operation.

###—TIME CAPSULE, 200th—###

Larry deMontegre (WQ6V) has suggested that we bury a time capsule at the repeater site on Palomar Mountain with club memorabilia: pictures of founders of the club, membership list (after Aug 1st), list of donators paying off the repeater site note, SCOPEs, QSL cards, etc. This would be in honor of the 200th birthday of our Constitution and the 50th year of the club's existence. Does anyone have additional suggestions for a time capsule?

###—POTPOURRI—###

We have been having troubles lately

with contacting visitors at our meetings and getting them started in the right direction towards getting their licenses. We have established a HOSPITALITY person who will have available free information at all meetings on getting a license and we will also have some commercial books at cost which should be of some help to getting them started since most of the new people can't seem to locate the local candy stores or find the required books. Please make a special effort to contact visitors at our meetings that come from your city and give them your phone number. Our club's radio theory class will start in September.

Remember the club picnic, Sunday, August 23rd ... also, if you haven't sent in your \$12 dues for next year, be sure to immediately send your check to Ron Wilhelmy (WI6B) at our club address so that you will receive your August SCOPE, be eligible for the August Picnic prizes, and have your name and call included in the TIME CAPSULE to be buried this coming September at the repeater site.

###—THANKS—###

THANKS to Jo Ashley (KB6NMK), Bill Blackmore (N6OPP), and Bob Rice (KS6S) for helping me with the American Lung bicycle ride from Orange County through Camp Pendleton and back up north on I-15 on the 14th of June. Bob is an experienced communicator handling car, bike, and motorbike races down into Baja, Mexico. The club thanks you all for your help.

THANKS to Clint Call (W6OFT) for checking out 5 or 6 donated rigs to the club's equipment fund so that we could put them on the FOR SALE list knowing that they were in working order. It sure helps clean out my garage which KA6FPS is very happy about!

73 de Stan, W9FQN

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are \$3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530. Ads and other material for Scope to PO Box 73, Vista 92083 by Wednesday, two weeks before the club meeting.

 CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. MEETINGS ARE NOT A FUNCTION OF THE VISTA UNIFIED SCHOOL DISTRICT AND ARE NOT SANCTIONED BY THE BOARD OF TRUSTEES OF THE SCHOOL DISTRICT. So there!

JULY CLUB MEETING

THE PROGRAM FOR THE EVENING WILL BE: Tom Meers, N4KRA, speaking on "Tips for traffic handling". This short talk should be a refresher course for old and young alike and is preparation for those working at the club booth at the Del Mar Faire. We will also hear from Ed, N6GZI, on radio frequency interference. For Show and Tell, we would like to request members with mobile installations to show off their pride and joy mobiles to other club members (and non-members too!). Please park by the cafeteria so we can all look and drool! So come one and all and bring a friend. We've got something for everybody!

SHOW AND TELL will also have items brought in by club members, but please see W9FQN prior to the meeting so that you can be scheduled.

JUNE CLUB MEETING

At the June club meeting Jack Althouse, K6NY, of Palomar Engineers showed us his toroids and told us how to "roll our own" RFI filters using the toroids. I'm going to run over and get some for a phone problem or two.

The minutes of the previous meeting and the Treasurer's report were read and approved. Treasurer WI6B reminded club members that it is costing the Club \$.30 each we time learn of your new address from the P.O. when you fail to notify us before the post office returns your Scope. Phil, WF6L, stated that approval of funds for equipment for the Potter Jr. High Radio Club had finally come from SANDARC. W9FQN reported that SANDARC has over \$50,000 in a blocked account, the interest only being spendable. Pat, N6INN, reported on growing disenchantment with the Volunteer Examiner Program as conducted under SANDARC-VEC's auspices since it has evolved into a computer testing program for all written test elements. Pat is retiring as Team Leader of the PARC VE team at the end of the October test session. She also said that SANDARC-VEC objected to paying \$10/month for the rental of Joslyn Senior Center for the test program. W9FQN indicated the requirement for more equipment and volunteers for the Club's participation in Field Day. Tom, N4KRA, told of the need for more net control and liaison stations for the North County Traffic Net.

The coffee by Bill, N6OPP, and tasties by several thoughtful folk and N6OPP were sooo goood. Thanks folks. Hope somebody else will lend a hand. There were about 80 folks to enjoy it. A grand time was had by all.

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the June meeting, which was held at the home of W9FQN, the Committee heard and approved the Minutes of the previous meeting. The Treasurer's Report was read and approved. KB6QC reported on up-coming programs. WB6IQS reported that the old 450 MHz repeater had been sold for \$80 at the last

TRW swap meet. He also told the Committee that he had purchased, at a reduced price, nearly all of the required connectors for the recently donated Heliastax. The Committee discussed the requirement for someone at club meetings to handle guests who want to know how to get started down the road to a ham license. WF6L was so appointed. At the same time, designated persons are to act as hosts for the Club at meetings, introducing guests and pointing them toward WF6L if unlicensed and toward WI6B for club membership. The Committee reaffirmed the importance of the self-introduction period at each meeting. A handout will be prepared for would-be hams, giving addresses, names, telephone numbers, and other information to get them started down the right road. The Club will purchase five publications which will then be available for re-sale to guests who wish to start studying for the Novice license. These books will be replenished as required. Field Day was discussed. The use to which the Club's trailer will be put was discussed. W9FQN said that letters have been written to W5YI and the ARRL asking for information on the VE Program in light of present dissatisfaction with the direction being taken by SANDARC-VEC. Letters to the County of Los Angeles and to the FCC concerning the seven-year problem with WA6NUD/R-K0JPK/R were discussed and a plan of action decided upon. A grand time was had by all. July meeting at the WF6L QTH.

EXPIRED AND EXPIRING AMATEUR RADIO LICENSES

In June: N6GWJ, WB6YVT. August: WB6BHE, W6HLB.

FORESAIL

(The halyard, ya say!)

Swan Astro 102BXA 100W PEP output solid state 160-10M HF xcvr, pwr supply & manual. Daiwa CNA-2002 auto. ant. tuner \$150; Astatic 1104C mike, \$20; RCA WR64A Color Bar/Dot/Crosshatch Gen. \$20. Call Stan, W9FQN, 749-0276.

10-40M flagpole antenna (concealed trap vertical in a flagpole) w/40' of coax. Call Floyd, W6JSP, 741-8391.

Drake 2B rx, near mint, \$50. Call Dan, WA6HYB, 433-4445.

Late model Yaesu FT-980, mint condx, \$950; Zenith VC1200 color video camera, \$175; Alda 103 xcvr, \$180. Call Bill, N6COU, 758-7163.

MFJ 1270 packet radio TNC w/connect alarm installed, \$85; MFJ 407 deluxe electronic keyer w/AC adapter, \$40. Call Tim, KI6GI, 469-2920.

Heath SB-3 ham band rx w/spkr & book, \$60. Call Hal, W6DOL, 291-5939.

ANTENNA TUNERS: Drake MN-2000 2KW PEP and Cubic-Swan ST-2B. Phone Allen, N7AMR, 434-5656, after 7/10/87.

Yaesu 708 450 MHz HT w/AC&DC chargers, \$250. Call Buck, WW6E, 941-0867.

ICom IC-02AT 2M HT w/case, new, unused, \$300. Call Jack, W6QP, 724-3341.

Palomar Engineers noise bridge, \$30; Cubex 2-elm., 3-band quad, \$120. Call Phil, WF6L, 757-7008.

Drake R-4 rx, T-4X tx w/pwr supply, all appropriate cables. Will operate all new freqs. Asking \$200. Call Arnie, WA7BIA, 942-1166.

Tristao CT840588 5-sect. 88' guyed crank-up tower w/guy lines, \$700; Telrex 40M329 3-elm 40M beam, \$500; 2 prop pitch motors, \$75 ea; 4-elm. 10-15M beam, \$75, coax switches. Call Buck, WW6E, 941-0867.

WANTED

Two iron 20' tower sections to be used as cross-arms on the repeater tower. Contact Stan, W9FQN, 749-0276.

Icom IC-22S in working condx. Call Dennis, N6KI, 271-6079.

JOIN THE ARRL

The American Radio Relay League is the national Amateur Radio entity to which you should belong if you want to support your hobby. If you're not a member of the ARRL you should be!

When joining/re-joining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club and get it, with your membership application, to Treasurer, Ron, WI6B.

Speaking of the ARRL, the ARRL Letter says that the new tariffs against certain Japanese products do not affect Amateur Radio equipment.

FROM THE ARRL LETTER

The FCC has reconsidered and will now require one common question pool for each amateur radio license examination element. A previous ruling had permitted individual VECs to compile and maintain their own question pools. Each pool must contain at least 10 times the number of questions required for one examination. Present question pools must stay in effect at least until 1/30/88. Question pools must be published and made available to the public prior to their use for making question sets.

The FCC also affirmed its earlier ruling that all telegraph message elements must contain all 26 letter, 10 numerals, period, comma, question mark, and the prosigns AR, SK, BT, and DN. Message elements must be long enough to satisfy this requirement (meaning that they can be LONGER than five minutes).

The 1987 Net Directory is now available from ARRL HQ for \$1 postpaid.

THE FCC IN GETTYSBURG SAYS:

Licenses issued as of 6/1/87: AA6CP, KI6TM, N6PNJ, KB6SYY.

THREE REPEATERS, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third, W6NWG, is a packet radio digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. Unfortunately, he does require money and also feels it only fitting that you provide him with your name and call sign if you want them on your very own badge - like the big guys have.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: The El Cajon ARC ham-computer-electronics swap meet at the Santee Drive-in theater on Woodside Ave at Hwy 67 in Santee at 0700 on the first Saturday of the month.

The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the Gen. Dyn. parking lot east of Haven on Fourth Ave, starting at 0700.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700.

THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS IS to IGNORE IT! Don't give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try to hear the interfering signal on the input of the repeater and, if possible, determine the direction from which it is coming.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Paul Bonds, N6PHR, and George Todd, N6PPN, both to General. Congratulations!

GNU CLUB MEMBERS: Linda Sellers, KB6SAE, Oceanside; Ken Klippel, W6FN, Carlsbad; Fred & Mary Barker, N6PDZ & N6PEA, Vista; Tom Brown, N6ICH, Oceanside; Ken Lint, N6AQV, Oceanside; Ray Stangler, WA6THC, Carlsbad; Dan Barry, Vista; Tom Anderson, WD6AXN, Del Mar; Jack & Jeremy Simmons, KI6RF & KB6SFL, San Diego; Larry Chandler, KB6OQE, La Mesa. Welcome. It's nice to have you all with us.

RENUDE MEMBERS: Gary Grant, N7AS; John Reber, N6BAD; Bill Countryman, KE6BH (2 years); Ray Dobler, W6BHF; Arnie Lewin, WA7BIA; Steve Lang, WA6BSD; Betty Mahoney, KB6DGR; Bill Steele, W7EAI; Mark Divecchio, K3FWT; Rich Garren, K6GAK; Marty Witting, W9GNI; Steve Seller, N5GZP; Charles Hodgson, W6HC; Nash Williams, W6HCD; Art Rideout, WA6IPD; Jim Sandberg, K6HE; Bob Chambers, NC6J; Lane Hart, N6LTV; Ted Pakaski, N6NAU; Art Pearce, N6NLJ (2 YEARS); Howard Gates, W4NYU; Carl & Mary Burgess, N6NZX & KB6NZA; Clint & Eleanore Call, W6OFT & WB6OJL; Dick Powell, W6OML; Micky Jenkins, N6PBM; Gene Horrall, K6PP; John Moriarity, K6QQ; Phil Schutze, K6ROR (8 years); Nate Hassell, K2RTQ; Herb Wandschneider, WA6SVN; Bob Gates, WB6TBA; Harry Bluestein, N6TE; San Diego Mountain Rescue Team (Ivan Smith), W6TET; Lloyd Hunt, W6TFB; Hark Harker, WB6WGT; Walt Pennington, WO6U (2 years); Paul Buscema, KZ6X.

GNU CALL SIGNS: George Todd, N6PPN, first license. Vina de Montegre, N6PQQ vice KB6RXB. Mickey Jenkins is now N6PBM, having let WA6WQI lapse (or maybe she didn't want to be confused with WB6WQI). Mickey, if you'd had your expiration date in the Gin't Computer we'da told ya.

FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind the City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month starting at 10:00 a.m.

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at Coast Savings & Loan, 1540 E. Valley Parkway, Escondido.

Applicants for examination must send a S.A.S.E., a completed, signed Form 610 (PHOTO-COPIES ARE NOT ACCEPTABLE) and a copy of license(s) and Certificate(s) of Successful Completion, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. Form 610 may be obtained from the FCC. Applicants MUST BRING ORIGINAL LICENSES AND CERTIFICATES OF SUCCESSFUL COMPLETION (if any) with them.

VOLUNTEER EXAMINERS PROGRAM

At our May tests we administered 14 test elements to 10 applicants. Six elements were passed. Four applicants passed at least one element.

Congratulations to PARC members Paul Bonds, N6PHR, and to George Todd, both of whom became General Class amateurs as a result of the day's tests.

Our crew was: KG6VX reception; W6DEY CW exams; N6NNI, W6YYV, and WB6R examiners; W6TFB and K6HAV on the computers.

I'll be retiring as PARC VE Team Leader after the test session in October. SANDARC-VEC is hoping to find someone to step in and do the job so that the north county sessions may continue. If you can volunteer, see me and I'll be happy to put you in touch with the VEC. Or see W9FQN.

de Pat, N6INN

"Serving Northern San Diego County Over 40 Years"

CONSULT
JOHN A.
STEIGER
AND
ASSOCIATES
REAL ESTATE

711 THIRD STREET
OCEANSIDE, CA 92054

WB60JL
ELEANORE M. CALL
SALES ASSOCIATE

Bus. (619) 722-1171
Res. (619) 729-0850

PACKET IN -- PACKET OUT

The integration of packet into the ARRL National Traffic System (NTS) has reached a point where considerable traffic is being handled on packet. Packet stations are needed to pick up traffic from NTS mailboxes and then pass the messages on the North County Traffic Net (NCTN) to delivering stations. This liaison will expedite delivery by 24 hours. Furthermore, regular packet/NCTN liaison will constitute predisaster preparation for timely handling of large-volume incoming and outgoing disaster welfare traffic. If you can help, please contact Tom, N4KRA, who has agreed to act as Assistant Traffic Manager for Packet.

Also needed are CW stations to pick up traffic on the Southern California Net (SCN1) at 6:30 p.m. on 3598 kHz and then pass the messages to delivering stations on NCTN at 8 p.m. SCN operates at a nominal, and flexible, speed of 15 wpm so you do not have to be a speed demon to participate. This liaison does expedite delivery by 24 hours. If you can support this function, please contact me.

de Gordon Wenz, N6GW, Section Traffic Manager

DOWN THE TOOBE

Bill Driml, W6NAT, past president and former Vistan, who now lives at Ft. Dick, CA, sends along enough \$\$ for Scope renewal for two years and a nice note telling about all of his activities. Bill will be looking for W6NWG on Field Day and hopes one of our ops recognizes him THIS year.

Hal, W6DOL, spent a week or so in the hospital for an operation. He said he talked the the outside world by HT, and was about ready to come home.

Dr. Paul Bonds, N6PHR, who is a brand new ham, is starting out right. He has the 70' tower and three monobanders 10-20M of silent key Marv Smith, N6NA. Paul had help in getting them down, but got 'em up himself!

"That's all", she wrote!

PARC REENLISTMENT NOTICE - LAST ONE TOO

Last month's form confusing? Here's one you can use instead. Dues are \$12/year + \$9/year for each additional family member. Scope included.

Name and Call _____

\$12 for ONE year _____ \$24 for TWO years _____ \$36 for THREE years _____

Ham License expiration month and year _____ CHANGES in address, call sign, phone number _____

Remarks, appropriate and otherwise _____

06-18-87

RPTRULE1-MISC1

KB6AI W9FQN K6HAV WI6B

The PALOMAR AMATEUR RADIO CLUB, Inc.

P.O.BOX 1603, VISTA, CA 92083-0530

Phone 749-0276, 931-8759, 757-7008, 756-3133

<<--Control Ops-->>

REPEATER ETIQUETTE

WB6IQS WA6KZN KB5MU K6ROR

The Control Operators of the PARC repeaters do not want to preach club repeater etiquette to repeater users while they are using the repeater. We feel that private communication is the best way of calling items to the attention of individual users. We hope that others will follow the good examples used by many of our club members. We realize that the FCC permits many things that we do not approve of at present. We hope that you will encourage others to display proper repeater operation by your good example. Everyone will enjoy the repeater more if we show consideration for other users. As repeater usage increases so does the need for good operating. You are reminded of the following checked PARC policy items in connection with the use of the W6NWX repeaters:

IGNORE JAMMERS. Work over or thru them. We are looking for them! Check input and notify us of bearing/intensity for our plot board ASAP. Don't acknowledge that you even know that they are there.

BREAK with your call sign: W6XXX, BREAK W6XXX, or BREAK BREAK W6XXX. This goes from a casual break to an emergency break. Use what is needed!

BREAKING a conversation and then leaving without turning it over to someone by call or name. Don't add to the confusion of the BREAK!

BREAKING a conversation and then ignoring the rest of the stations in the original QSO. Be considerate!

BREAKING into a QSO and interjecting comments without immediately giving a call sign. Break with care and reason.

TALKING for long periods of time and defeating the reset timer. This is permissible only by net controls and traffic handlers. Exchanges should be less than 60 seconds. Think of others.

QUICK KEYING: rapid fire conversations where breaking stations running low power would not be able to make their presence known.

LONG CONVERSATIONS from a base station during mobile hours: 6:00-8:00 AM and 4:30-6:30 PM. Keep it short!

LONG CONVERSATIONS between stations that obviously are all in simplex range of each other. Use simplex.

LONG CONVERSATIONS without asking "if anyone needs to make a call".

PAUSE during casual conversations and ask if anyone wants to join you.

MORE POWER than necessary making it difficult to BREAK with low power.

CONTROVERSIAL subjects where the conversation will likely draw out the crazies or the self appointed police and

ultimately result in jamming: strong political views, sexual subjects, raw ethnic jokes, etc. Humor is great but excessive use leads to repeater problems.

ID on the first transmission and on ending transmission.

LISTEN for 30 seconds before making a transmission.

RUDE BEHAVIOR to people using the repeater. Always be friendly. It pays.

Being CRITICAL of another ham or other repeater on our repeater.

IMPROPER LANGUAGE (free speech) draws jammers. Keep it proper!

Discussing obvious BUSINESS items over the air. Don't be so obvious! FCC no-no!

BROADCASTING: not in two-way contact. FCC no-no.

IMPROPER CALL: W6ZZZ this is W6XXX, are you out there? KISS! Don't give messages with your call.

TESTING on the repeater. Test on simplex. Requesting audio reports ok.

HT WITH RUBBER DUCK inside of a car. Use amplifier and/or outside antenna.

TALKING SIMPLEX on the repeater output or input without good reason.

BAD AUDIO and/or excessive deviation.

INCOMPLETE UNDERSTANDING of how the repeater works. Contact the control operator marked above for information.

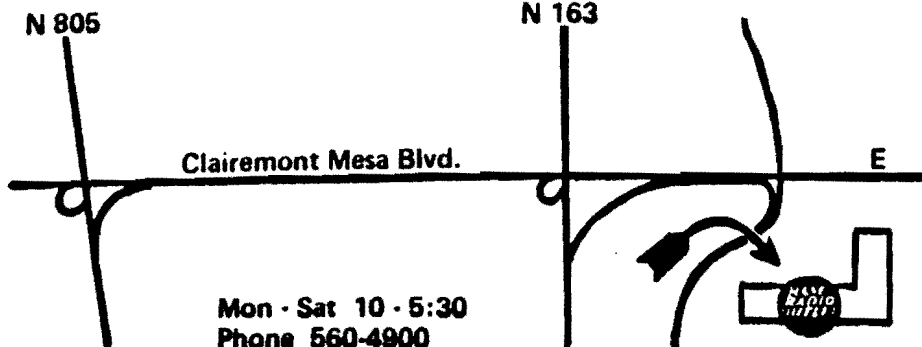
IMPROPER TELEPHONE/PATCH use over the repeater.

REQUESTING ASSISTANCE and then leaving the frequency before someone can answer. Give them time to get to a transmitter.

TIMING OUT of the repeater. It has a 90 second timer. Keep it short.

Acting like a CONTROL OPERATOR. They are appointed by the president with approval of the Executive Committee.

OTHER: _____



5375

KEARNY VILLA RD.
SAN DIEGO, CA 92123

TOM KM6K, Mgr.
GARY K6CAQ

KENWOOD TW-4100..New Duo-band Mobile...\$584.95
KENWOOD TH21BT, 31BT, 41BT Mini HTs w/free
extra battery
KENWOOD TS-440S/AT NEW HF MOBILE....\$1019.95
YAESU FT-757GX NEW MK II MODEL.....\$989.95
YAESU FT-2700.....DUO-BAND 2M/450MHz
full duplex.....\$449.95
ICOM IC-735.....NEW HF Gen. Coverage.\$849.95
ICOM IC-38A.....220MHz MOBILE.....\$395.00
ICOM IC-u2AT.....MINI-HANDY.....\$295.00
KENWOOD TH-215...NEWEST GENERATION W/FREE
EXTRA BATTERY.....\$309.95
YAESU FT-23/TT...State of the Art HT....\$269.95
ICOM IC-3200.....Duo-Bander 2M/450MHz. \$539.95
KENWOOD TM-221...NEW 2M MOBILE
45 WATTS & PL.....\$349.95

While browsing, don't forget to
see the CW/RTTY set-up using
the IBM and the AEA interface.
Let us demonstrate this
fascinating mode for you.



COMMUNICATIONS SPECIALISTS sub-audible units for your FM and HT rigs.
We have a good stock of antennas, and of course, a good supply of rotors, too.
Don't forget - we have guaranteed used equipment also.

THESE PEOPLE SUPPORT THE "SCOPE" WITH THEIR ADS

— ELECTRONICS —

SATISFACTION GUARANTEED

NICHOLAS A. ANDREE

HIWAY COMPANY
305 Wisconsin Avenue
Oceanside, CA 92054

Telephone:
(619) 722-1175

The original R-X Noise Bridge

SWR AND POWER METER

The Tuner-Tuner™

VLF CONVERTERS

Palomar Engineers

Phone: (619) 747 - 3343 · 1924-F West Mission Road
Escondido, CA 92025

BYTES 'N PIECES

Packet radio has problems. This isn't news to anybody who has operated much packet in this area. The popular two-meter frequencies are grossly overcrowded. This problem arises naturally from the nature of the medium. Two important strengths of packet radio are (1) the capability to have many stations using one channel simultaneously, and (2) the capability for two stations that are not in range of each other to communicate through digipeaters. Both of these strong points contribute to the tendency of packet users to cluster on a few frequencies. Mountaintop resources are limited, so only a few frequencies have extensive digipeater (or NET/ROM mode) networks. Everybody who is interested in long-haul communications, and everybody who wants to communicate with these stations, must remain on one of these frequencies. And the ones who are actually using long digipeat paths are generating all those extra packets due to digipeating (not to mention the retries). Result: overcrowding.

Mailboxes seem to be the most controversial users of channel capacity. Computer networking is supposed to be what packet radio is all about, and electronic mail is one of the essential features of computer networking. But why must they burn up so much space on prime frequencies? Same phenomenon: digipeater networks attract users, and users attract mailboxes, which attract more users.

There is a solution, but it's expensive and will be slow in coming. The user-accessible networks must be partitioned into much smaller pieces (LANs) and the LANs linked on other channels, preferably at higher speeds. Until that happens, we have to try to utilize the existing network as efficiently as possible.

By Paul Williamson, KB5MU

SCOPE USPS 076530, published monthly by
the PALOMAR AMATEUR RADIO CLUB, INC.,
3716 Bluebird Canyon Rd., Vista, CA 92084.
Subscription: \$3.00 per year. Second
Class Postage paid at Vista, CA 92083.
POSTMASTER: Send changes to: SCOPE,
P.O. Box 1603, Vista, CA 92083-0530

2nd Class Postage Paid
at Vista, CA 92083